

**Climatological Data for August, 1910.**  
**DISTRICT No. 9, COLORADO VALLEY,**  
FREDERICK H. BRANDENBURG, District Editor.

**GENERAL SUMMARY.**

The month was marked by heavy, local rains, an unusual range of temperature, and in the northern part of the district the lowest minimum temperatures of record in August. In Wyoming and parts of northwestern Colorado during the cold wave of the 25th and 26th hard freezing weather was general. In Utah, where the severity of the cold wave was less marked, the damage was confined principally to vine crops. A light frost was noted at Flagstaff, Ariz., on the 6th. Heavy rains at Baker, Utah, on the 11th, 12th, and 31st caused much damage to roads; at Silver City, N. Mex., on the 22d, a downpour, lasting half an hour, caused considerable damage; on the 30th, at Fairbanks, Ariz., heavy rains caused the San Pedro River to overflow its banks, sweeping the valley for 20 miles; railroads were washed out and farms devastated, and at Tombstone, Ariz., 3 houses were struck by lightning and burned. On the same date, but in the opposite part of the State, railroad tracks were washed out between Seligman and Ash Fork.

**TEMPERATURE.**

The mean of the 132 stations was  $73.7^{\circ}$ , or  $0.6^{\circ}$  above the normal. Notwithstanding this small departure, the greater part of August was very warm, the excess being materially reduced by several unusually cool spells. By subdivisions the means and departures were: Western Wyoming,  $59.3^{\circ}$ ,  $\pm 0^{\circ}$ ; western Colorado,  $62.5^{\circ}$ ,  $-0.8^{\circ}$ ; eastern Utah,  $71.2^{\circ}$ ,  $+0.6^{\circ}$ ; western New Mexico,  $73.1^{\circ}$ ,  $+1.5^{\circ}$ ; Arizona,  $81.8^{\circ}$ ,  $+0.9^{\circ}$ ; southeastern Nevada,  $80.9^{\circ}$ ; The highest monthly mean was  $96.0^{\circ}$  at Casa Grande, Ariz., and the lowest,  $46.2^{\circ}$ , at Corona, Colo., elevation, 11,660 feet.

The 4th and 5th were cool over the greater part of the district, but during the remainder of the period up to the 17th the departures were generally small. From the 18th to 28th very high mean temperatures were noted daily, except on the 25th and 26th in northeastern Utah, northwestern Colorado, and western Wyoming. The closing days of the month were cooler than the normal. By subdivisions the extremes were: Western Wyoming,  $94^{\circ}$  and  $15^{\circ}$ ; western Colorado,  $100^{\circ}$  and  $15^{\circ}$ ; eastern Utah,  $107^{\circ}$  and  $25^{\circ}$ ; western New Mexico,  $105^{\circ}$  and  $38^{\circ}$ ; Arizona,  $119^{\circ}$  and  $40^{\circ}$ ; southeastern Nevada,  $111^{\circ}$  and  $34^{\circ}$ .

**PRECIPITATION.**

The average precipitation for the 178 stations reporting was 1.69 inch, or 0.37 inch below the normal. A deficiency was noted on all watersheds, except the lower Colorado. In Nevada light showers fell on only 2 days, and in Wyoming on 3 days, while in Arizona and Colorado showers, also generally light, fell in localities every day except the 6th and 26th. In Utah and New Mexico conditions were somewhat similar as regards frequency of rainfall, though more local in character. By watersheds the means and departures were: Green, 0.88,  $-0.30$ ; Grand, 1.48,  $-0.46$ ; San Juan, 2.04,  $-0.62$ ; Little Colorado, 1.66,  $-0.57$ ; Gila, 2.09,  $-0.31$ ; Mimbres, 1.15,  $-0.99$ ; Colorado, proper, 1.44,  $+0.01$  inch. The greatest monthly amount was 5.32 inches at Oracle, Ariz., and the least, a trace, at Las Vegas and Logan, Nev. The average number of days with 0.01 inch or more of precipitation was 7.

**MISCELLANEOUS.**

The percentage of sunshine was about normal in the southern part and above the normal in the northern part of the district. Grand Junction reported, 80; Durango, 78; Flagstaff, 67; Phoenix, 82, and Yuma, 94 per cent of the possible.

The mean relative humidity observed ranged from 69 per cent at Flagstaff to 39 per cent at Grand Junction.

**LOWER COLORADO RIVER.**

Engineer J. A. Ockerson has completed his preliminary examination of the conditions in the lower Colorado River, and will soon be ready to submit his report thereon to the President.

Engineer Ockerson, who is a member of the Mississippi River Commission, with headquarters at St. Louis, has had many years of experience in controlling floods in that stream. He was sent to the Southwest by the President, as his special representative, to propose a plan for the expenditure of the \$1,000,000 appropriation recently made by Congress.

In his report, Mr. Ockerson states that the break in the Colorado is about 20 miles below the point where the Colorado has entered the channel of the Abejos, and is emptying into Volcano Lake. It is at the point where the Colorado leaves its old channel for the Abejos that the work will have to be concentrated. Below this point the old channel of the river is utterly dry for more than 50 miles. Mr. Ockerson further states that if the present course of the stream is unmolested, it will soon fill Volcano Lake, and overflow from there into the Imperial Valley.

In the meantime the matter of the beginning of the work is in the hands of the diplomatic departments of the United States and Mexico, but it is thought there will be no trouble, except that the Mexican Government would probably not wish to make any appropriation for the maintenance of the work, since the residents of the Imperial Valley only are the ones to be benefited.

**FIRE FIGHTING IN THE CATALINA MOUNTAINS OF ARIZONA.**

During the season just past, fire has exacted its toll in many of the mountains surrounding Tucson. The chief cause of these fires was probably the long protracted drought. In the case of the June fires, which proved so disastrous, especially in the Santa Catalina Mountains, an electrical disturbance, accompanied by little rain, is known to have caused 2 of the more serious fires. In these mountains there were 4 fires of independent origin in widely-separated regions, 2 on the east, and 2 on the west side. If the blazes due to escape from parent fires are added, some of the most dangerous of which were overcome in their incipiency, the number of fires burning at different times was at least 12 or 15. The total area burned is about 20 square miles, and the cost of vanquishing the flames and the total damage are estimated at \$250,000. In the opinion of those best qualified to judge, the entire splendid forest cover of the Catalinas would have been burned had it not been for the valiant and untiring work of the forest rangers and their employees. The fire of largest extent, spreading from Oracle Ridge through many of the best protected canyons and gulches of the east side as far south as Kellogg Peak, and on the north invading Del Oro Canyon, was successfully checked by backfiring along upper Sabino Creek and southeastward along the main divide. Several fires escaping over this line were checked only by the hardest work. Four of the principal camps were almost touched by the flames. The best forest of the higher Catalinas, including the Mount Lemmon fir forest—the finest bit of true forest that southern Arizona affords—was saved from what threatened to be the severest burning in half a century, if not its total destruction. As dangerous as any, owing to the prevailing west wind, were the 2 fires that started on the west side of that mountain, but by an all-night's work spent upon each of them, they were conquered.

Along with the forest cover was saved the biological station of the Desert Botanical Laboratory, upon which a large sum of money has been expended.

TABLE 1.—Climatological data for August, 1910. District No. 9, Colorado Valley.

Stations.	Counties.	Elevation, feet.	Length of record, yrs.	Temperature, in degrees Fahrenheit.						Precipitation, in inches.						Sky.	Prevailing wind direction.	Observers.			
				Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Greatest daily range.	Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall unmelted.	Number of rainy days, 0.1 inch or more.	Number of clear days.	Number of partly cloudy days.	Number of cloudy days.			
<i>Wyoming.</i>																					
Battle Mountain.	Carbon.	7,300	11	53.4	- 1.3	84	3	15	25	53	0.10	- 0.95	0.10	0.0	1	22	9	0	nw.	U. S. Forest Service.	
Daniel.	Uinta.	6,740	3	61.2	+ 1.2	89	19	22	25	50	0.23	+ 0.12	0.30	0.0	0	3	11	17	3	w.	J. M. Van Dervort.
Eden.	Sweetwater.	6,577	3	56.7	+ 1.2	94	18	28	30	57	0.74	+ 0.12	0.30	0.0	4	18	11	2	w.	Eden Valley L. & I. Co.	
Green River.	do.	6,083	4	55.6	+ 1.2	89	1	15	26	67						15	6	0	nw.	Geo. W. Maxon.	
Pinedale.	Fremont.	7,167	4	55.6	+ 1.2	89	1	15	26	67									U. S. Forest Service.		
Rambler.	Carbon.	9,232	1																J. C. Fothergill.		
Willow Creek Cabin.	Freemont.	7,500	2																J. L. Allen.		
<i>Colorado.</i>																					
Ashcroft.	Pitkin.	9,483	8	53.8		77	21	28	25	42	2.23		0.44	0.0	16				Dan McArthur.		
Bed Rock.	Montrose.	9,536	20	51.9	- 1.5	75	21	22	25	49	0.45	- 1.92	0.13	0.0	6	2	24	5	se.	W. B. Weybright.	
Breckenridge.	Summit.	8,900	4																Mrs. J. G. Thompson.		
Cascade.	San Juan.	7,500	4																San Juan P. & W. Co.		
Chromo.	Archuleta.	9,088																	Lawrence Nolan.		
Cochetopa.	Saguache.	6,000	17	67.2		88	21†	39	25	39	0.71	- 0.68	0.35	0.0	0	23	6	2	sw.	Bessie McDonough.	
Collbran.	Mesa.	8,786																	A. A. Wood.		
Columbine.	Routt.	6,925																	Mrs. M. A. Caron.		
Columbine Ranch.	Delta.	11,660	3	46.2		60	3†	27	25	27	0.58		0.50	0.0	2				Geo. W. Wade.		
Corona.	Grand.	6,600																	U. S. Weather Bureau.		
Crawford (near).	Montrose.	8,867																	C. W. Roe.		
Crested Butte.	Gunnison.	5,410		54.4		89	21	25	26	51	1.27		0.40	0.0	8	13	10	8	Charles L. Ross.		
De Beque.	Mesa.	4,935		76.4		100	19	43	26	52	1.50		1.10	0.0	2	21	8	2	C. M. Paine.		
Delta.	Delta.	4,905	19	72.4	+ 0.1	98	30	38	26	56	0.37	- 0.59	0.18	0.0	5	27	1	3	E. M. Getts.		
Dillon.	Summit.	8,800	1	62.6		82	20	22	26	55	0.15		0.08	0.0	3	20	7	4	Harry T. Hamilton.		
Dolores.	Montezuma.	6,500	1																Geo. R. Simmons, jr.		
Durango.	La Plata.	6,534	17	67.3	+ 0.3	91	22	45	31	42	1.28	- 0.85	0.47	0.0	11	6	22	3	nw.	U. S. Weather Bureau.	
Eagle.	Eagle.	6,598	5																J. M. Witteman.		
Eureka.	San Juan.	10,000	3																San Juan P. & W. Co.		
Fraser.	Grand.	8,560		51.3		77	19	15	26	55	0.65		0.18	0.0	10	7	14	10	w.	L. D. C. Gaskill.	
Fruita.	Mesa.	4,510	11	74.6	+ 1.3	98	21	43	25	45	1.18	- 0.01	0.63	0.0	3	11	14	5	w.	J. B. Willson.	
Gladstone §.	San Juan.	10,400	3																San Juan P. & W. Co.		
Glenwood Springs (near).	Garfield.	5,823	12	62.0	- 5.0	90	4†	33	25	50	1.07	- 0.47	0.30	0.0	5	25	6	0	w.	E. A. O'Neil.	
Grand Junction.	Mesa.	4,608	19	76.8	+ 0.7	97	7	50	30	37	0.80	- 0.44	0.42	0.0	6	12	18	1	e.	U. S. Weather Bureau.	
Grandlake.	Grand.	8,153	2																Mrs. Belle Kauffman.		
Grand Valley.	Garfield.	5,089	18	71.4	- 0.0	98	18	38	26	55	0.88	- 0.12	0.52	0.0	8	23	6	2	sw.	David Evans.	
Gunnison.	Routt.	7,670	17	58.8	- 0.9	84	7†	29	30	51	1.62	+ 0.29	0.47	0.0	11	4	27	0	sw.	Clarence Adams.	
Horsefly.	Montrose.	8,700																	H. A. Finch.		
Ironton.	Oury.	10,000																	P. H. Foley.		
Kremmling (near).	Grand.	7,337	1	59.6		83	2†	26	26	54	0.73		0.18	0.0	13	7	16	8		J. F. Maurer.	
Lake City.	Hinsdale.	8,636	5	59.2		82	22	37	15†	41	2.73		0.37	0.0	21	4	21	6	s.	A. G. Wallihan.	
Lay.	Routt.	6,190	16	64.0	- 0.9	91	7†	21	30	62	0.22	- 0.69	0.10	0.0	4	18	11	2	sw.	L. J. Wade.	
Leal.	Grand.	8,750																	U. S. Reclamation Service.		
Lujane.	Montrose.	6,620	4	70.0		90	3†	44	25	41	0.74		0.47	0.0	7	16	14	1	se.	B. M. Krumpenitzky.	
Mancos.	Montezuma.	6,960	11	64.6	0.0	88	22	41	25†	43	1.26	- 1.35	0.66	0.0	7	4	25	2	sw.	Homer Harrington.	
Marble.	Gunnison.	7,951	1	59.4		88	3	30	25†	52	2.65		0.51	0.0	12	7	17	7	e.	William D. Lillard.	
Marshall Pass.	Saguache.	10,846	7																T. Baker.		
Meeker.	Rio Blanco.	6,182	18	62.4	- 1.8	85	3†	29	25†	51	1.39	+ 0.31	0.53	0.0	10	9	16	5	sw.	R. Butterfield.	
Montrose (near).	Montrose.	5,811	21	64.4		93	18†	37	26	47	1.42		0.41	0.0	6	18	13	0		Arthur Hanthorn.	
Nast.	Pitkin.	7,953		55.8		78	3†	31	25†	47	1.35		0.33	0.0	7	19	10	2	w.	Shaw Brothers.	
Pagoda.	Routt.	6,500	19	62.3	- 1.3	88	18†	27	25	50	1.50	- 0.06	1.19	0.0	3	28	3	0		E. T. Walker.	
Pagosa Springs.	Archuleta.	7,108	3	62.4		91	22	36	61	50	1.96		0.36	0.0	15	7	19	5		J. M. Underwood.	
Paonia.	Delta.	5,694	15	69.6		90	3†	46	25	38	1.58	+ 0.38	0.93	0.0	7	6	24	1	sw.	F. A. Field.	
Parshall.	Grand.																		Mrs. Maggie Cammann.		
Pitkin.	Gunnison.	9,500	1																Mrs. C. P. Hill.		
Rangely.	Rio Blanco.	5,050	11																Dorothea Greiner.		
Redcliff.	Eagle.	8,895	15																Clinton B. Smith.		
Rico.	Dolores.	8,824	8																Horace Mann.		
Rifle.	Garfield.	5,437																	U. S. Reclamation Service.		
River Portal.	Montrose.	6,570	4	67.2		91	2†	41	25	49	0.84		0.35	0.0	7	12	11	7		W. F. Irving.	
Sapinero (near).	Gunnison.	8,125	8	58.3		81	22	32	26	48	2.14		0.38	0.0	12	16	11	4	w.	Central Colo. Power Co.	
Shoshone.	Garfield.	6,110		69.7		88	3†	48	26	35	0.84		0.38	0.0	6	7	20	4		A. P. Root, jr.	
Silverton (1).	San Juan.	9,285	6	55.8		81	22	28	26	51	1.91		0.59	0.0	15	10	3	26	2	sw.	San Juan P. & W. Co.
Silverton (near) §.	do.	9,400	3	55.6		75	22	28	26	46	2.45		0.65	0.0	10	3	26	2	sw.	H. J. Wills.	
Spruce Lodge.	Grand.	9,600																	M. E. Houston.		
Steamboat Springs.	Routt.	6,683	7	60.0		88	18†	20	20†	60	0.60		0.39	0.0	4	30	1	0		San Juan P. & W. Co.	
Tacoma §.	La Plata.	7,300	3	63.4		88	21	42	24†	41	3.49		2.18		0.76	0.0	13	16	13	n.	Do.
Terminal Dam §.	do.	8,300	3																A. F. Terrill.		
Terrill's Ranch.	Mesa.	7,000																	Martin Esser.		
Uncompahgre Plateau.	Montrose.	8,400																	C. E. Macy.		
Whitepine.	Gunnison.	9,500	10	53.8		76	21†	32	6†	39						4	23	3	s.	Percy A. Hughes.	
Yampa (near).	Routt.	8,000	1													5	8	21	2	s.	Maude A. Palmer.
<i>Utah.</i>																					
Baker.	San Juan.	7,560	1																E. H. Wolf.		
Basin.	Grand.	9,500	11	65.1	- 2.3	94	6†	35	25	47	0.60	- 0.28	0.20	0.0	5	22	9	0		James Jeffs.	
Castle Dale.	Emery.	6,500																	Forest Supervisor.		
Elkhorn.	Unita.	6,657																			

TABLE 1.—Climatological data for August, 1910. District No. 9—Continued.

Stations.	Counties.	Elevation, feet.	Length of record, yrs.	Temperature, in degrees Fahrenheit.						Precipitation, in inches.						Sky.	Prevailing wind direction.	Observers.				
				Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Greatest daily range.	Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall unmeasured.	Number of rainy days .01 inch or more.	Number of clear days.	Number of partly cloudy days.	Number of cloudy days.				
<i>Utah—Cont'd.</i>																						
Tropic.	Garfield.	7,000	13	67.7	+ 1.0	92	21	42	15	44	1.45	- 0.02	0.56	0.0	5	9	19	3	sw.	E. P. Bolton.		
Trout Creek Ranger.	Unita.	9,200																	Forest Supervisor.			
Vernal.	do.	5,050	15	69.0	- 0.8	96	21	34	30	48	0.72	+ 0.00	0.42	0.0	3	27	3	1		S. P. Trim.		
<i>New Mexico.</i>																						
Alma.	Socorro.	5,500	14	77.4	+ 4.1	102	7	52	6	47	1.95	- 1.02	0.80	0.0	5	1	28	2	n.	M. A. Balke.		
Aragon.	do.	5,556	3	64.2		90	21†	38	17	50	2.22		0.60	0.0	7	7	21	3		John R. Milligan.		
Blackrock.	McKinley.	6,500	2	70.7		92	7†	48	17	40	0.97		0.42	0.0	4	0	31	0	w.	Wm. J. Oliver.		
Bloomfield.	San Juan.	5,500	15	73.9	+ 0.6	100	21†	45	17	46	1.55	- 0.72	0.38	0.0	4	3	27	1	sw.	Fred Le Clerc.		
Cambray.	Luna.	4,215	11																	Southern Pacific Co.		
Columbus.	do.	4,054	1			101	3				1.17		0.70	0.0	7	10	12	9	sw.	El Paso & Southwest. R.R.		
Deming.	do.	4,333	33	78.5		105	24	50	26†	50	1.02	- 0.91	0.50	0.0	0	0	27	4	w.	Southern Pacific Co.		
Dulce.	Rio Arriba.	6,767	3	66.3	+ 2.6	94	21	40	30	47	2.10	- 0.04	1.01	0.0	11	8	17	6	s.	G. H. Blakeslee.		
Fort Bayard.	Grant.	6,152	35	73.8	+ 2.6	90	1†	52	17	38	0.90	- 1.07	0.40	0.0	3	15	16	0	e.	U. S. Gen'l. Hospital.		
Fort Wingate.	McKinley.	6,997	48	68.6	- 0.8	93	2†	45	16	40	1.50	- 0.88	0.30	0.0	10	8	17	17	w.	Medical Corps, U. S. A.		
Fruitland.	San Juan.	4,800	17	74.0	+ 1.0	98	22	46	17	44	0.48	- 0.16	0.30	0.0	2	14	17	0	sw.	Cyril James Colver.		
Gage.	Luna.	4,486	3	78.8		103	1†	50	25†	46	1.00	- 0.56	0.50	0.0	3	10	17	4	w.	Southern Pacific Co.		
Gila (near).	Grant.	4,470	11	78.0	+ 1.1	103	21	52	6	50	2.27	- 0.29	1.05	0.0	5					T. J. Clark, sr.		
Gila Planting Station.	do.	6,475																	U. S. Forest Service.			
Haschita.	do.	4,504	1																El Paso & Southwest. R.R.			
Haynes.	Rio Arriba.	6,600																	Dr. John Roger Haynes.			
Hermanas.	Luna.	4,451	1																El Paso & Southwest. R.R.			
Lordsburg.	Grant.	4,245	10	81.5	+ 0.8	102	22	62	18†	36	0.87	- 0.68	0.87	0.0	1	6	23	2	w.	Southern Pacific Co.		
Luna.	Socorro.	7,300	5	65.2		88	7†	40	6	44	3.06		0.80	0.0	13	0	31	0	w.	C. B. Martin.		
Mimbres.	Grant.	5,007	5																Chas. Dennis.			
Pratt.	do.	4,415	1																El Paso & Southwest. R.R.			
Putnam.	San Juan.	6,200																	Miss Elenor L. Quick.			
Redrock.	Grant.	4,150	5																Robert H. Woods.			
Rodeo.	do.	4,118	1																El Paso & Southwest. R.R.			
Ross.	Rio Arriba.	6,000	5																B. A. Candelario.			
<i>Arizona.</i>																						
Alliares Ranch.	Cochise.	4,184	14																Thos. Allaire.			
Arizona Canal Dam.	Maricopa.	1,372	17	90.2	+ 1.6	108	26	60	30	35	3.25	+ 0.23	0.97	0.0	7	9	16	6	nw.	U. S. Reclamation Service.		
Artez.	Yuma.	492	11	94.1	- 0.6	113	5	73	14	37	0.11	- 0.38	0.06	0.0	2	23	3	5	w.	Southern Pacific Co.		
Benson.	Cochise.	3,523	30	81.8	+ 0.2	102	25	58	15	40	1.51	- 0.73	0.62	0.0	6	0	12	19	c.	Rev. J. G. Pritchard.		
Bonita.	do.	4,916																	A. Johnson & Co.			
Bowie.	Cochise.	3,756	34	82.4	+ 3.7	103	7	60	29	38	1.69	- 1.10	1.03	0.0	3	8	20	3	sw.	Southern Pacific Co.		
Buckeye.	Maricopa.	980	19	90.1	+ 2.6	113	26	61	14	48	0.78	- 0.06	0.27	0.0	4	25	6	0	s.	H. E. Kell.		
Camp Verde.	Yavapai.	3,160																	T. R. Gabbard.			
Canille.	Santa Cruz.	5,225	1																R. A. Rodgers.			
Casa Grande.	Pinal.	1,396	29	96.0	+ 4.8	115	19†	74	10†	36	3.02		0.93	0.0	12	0	27	4	se.	Southern Pacific Co.		
Cave Creek.	Maricopa.	1,520	3	87.6		109	26	63	14	43	1.51		0.54	0.0	2	12	8	11	sw.	E. A. Howard.		
Chin Lee.	Apache.	6,000	2	73.4		95	7†	52	5†	41	1.53		0.62	0.0	10	8	13	10	sw.	Fr. L. Ostermann, O. F. M.		
Chiarsons Mill.	Graham.	8,000	3	64.4		80	7	48	30	26	4.74		2.30	0.0	8	8	20	3	w.	H. R. Charlson.		
Clifton.	do.	3,584	20	87.3		105	6†	68	30	40	2.65	+ 0.10	1.47	0.0	7	13	18	0	sw.	P. Reisinger.		
Cline.	Gila.	2,300	11	86.8	+ 4.5	105	6†	65	6†	40	1.13	- 1.36	0.45	0.0	6	11	17	3	nw.	W. M. Clanton.		
Cochise.	Cochise.	4,219	12	77.6	- 1.9	98	7†	55	14	38	3.55	+ 1.36	1.50	0.0	5	15	14	2	se.	Southern Pacific Co.		
Columbia.	Yavapai.	1,900	10	80.6		110	21	70	30	31	1.59		0.65	0.0	5	3	23	5	se.	M. J. Nolan.		
Congress.	do.	3,688	14	84.5	+ 1.1	100	6†	66	4†	27	2.39	+ 0.20	1.28	0.0	6	11	13	7	sw.	Congress Mine.		
Courtland.	Cochise.	4,543	1																El Paso & Southwest. R.R.			
Dos Cabezas.	do.	5,250	2	76.1		100	1	52	30	42	1.85		2.55		0.58	0.0	12	7	19	5	e.	N. Erickson.
Douglas.	do.	3,930	7	79.4		101	27	59	30	39	4.48		0.65	0.0	7	13	21	1	sw.	Dr. F. T. Wright.		
Dudleyville.	Pinal.	2,204																	G. F. Cook.			
Fairbank.	Cochise.	3,862	1																El Paso & Southwest. R.R.			
Flagstaff.	Coconino.	6,907	18	63.8	+ 1.0	85	7	44	17	39	3.40		1.50	0.0	8	8	19	4	sw.	U. S. Weather Bureau.		
Florence.	Pinal.	1,504	11													13	9	9	13	nw.	Pacific & Eastern R.R.	
Fort Apache.	Navajo.	5,200	39	73.6	+ 2.1	97	25	50	6	43	3.85	+ 0.43	0.80	0.0	13	5	25	1	sw.	Post Surgeon, U. S. A.		
Fort Huachuca.	Cochise.	5,100	25	74.1	+ 0.2	97	12†	48	30	44	2.95	- 1.44	1.00	0.0	8	19	10	2	se.	A. F. Duclos.		
Fort Mohave.	Mohave.	604	37																Southern Pacific Co.			
Gilabend.	Maricopa.	737	20	92.0	+ 0.3	116	5	70	9†	44	0.07	- 0.97	0.07	0.0	1	22	6	3	s.	Dr. B. G. Fox.		
Globe.	Gila.	3,525	9	82.0		102	16	62	24	35	2.09		1.15	0.0	10	0	30	1	nw.	Grand Canyon Ry.		
Grand Canyon.	Coconino.	6,866	7	66.6		94	40	48	18	47	3.83		1.10	0.0	16	5	20	6	sw.	Mrs. M. Butler.		
Greer.	Cochise.	4,180	1																El Paso & Southwest. R.R.			
Hereford.	do.	5,069	20	77.7	+ 2.7	102	7	55	31	43	1.03	- 0.42	0.54	0.0	4	28	3	0	sw.	T. Larson.		
Holbrook.	Navajo.	2,230																	A. J. Robinson.			
Intake.	Gila.	4,743	13	78.2	+ 1.2	96	6†	62	12†	30	2.64	- 0.96	0.84	0.0	7	5	25	1	s.	Dr. L. A. Hawkins.		
Jerome.	Yavapai.	6,600	7	70.5		91	21	50	31	38	1.71		0.74	0.0	9	6	18	7	se.	L. R. Ballard.		
Keams Canyon.	Navajo.	6,000	17	70.5		91	21	50	31	38	1.71		0.57	0.0	6	10	21	0	sw.	J. R. Gooding.		
Kingman.	Mohave.	3,326	9	82.2		106	6	48	15	51	1.92		0.57	0.0	6	10	20	1	w.	El Paso & Southwest. R.R.		
Lewis Springs.	Cochise.	4,029	1																Southern Pacific Co.			
Maricopa.	Pinal.	1,186	33	92.3	+ 0.4	114	19	66	29	40	0.54	- 0.43	0.35	0.0	4	13	17	1	w.	C. L. Diehl.		
Mesa.	Maricopa.	1,244	16	86.4	- 1.0	106	17†	54	14†	50	1.88	+ 0.38	0.56	0.0	7	9	17	5	sw.	Southern Pacific Co.		
Mohawk Summit.	Yuma.	538	10	91.0	- 3.0	109	19	70	27†	37	1.26	+ 0.27	1.00	0.0	2	13	16	2	w.	El Paso & Southwest. R.R.		
Naco.	Cochise.	4,579	1																D. G. Goodfellow.			
Natural Bridge.	Gila.</td																					

TABLE 1.—*Climatological data for August, 1910. District No. 9—Continued.*

Stations.	Counties.	Elevation, feet.	Length of record, yrs.	Temperature, in degrees Fahrenheit.						Precipitation, in inches.						Sky.	Prevailing wind direction.	Observers.	
				Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Greatest daily range.	Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall unmelted.	Number of rainy days, .01 inch or more.	Number of partly cloudy days.	Number of cloudy days.		
<b>Arizona—Cont'd.</b>																			
Silverbell.....	Pima.....	2,650	5	86.2	.....	103	25	65	29†	29	1.85	.....	0.83	0.0	7	13	11	w.	Imperial Copper Co.
Snowflake.....	Navajo.....	5,644	1	72.4	.....	95	7†	49	17	44	1.45	.....	0.51	0.0	7	0	10	nw.	W. J. Flake.
Supai.....	Coconino.....	3,200	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	C. E. Coe.	
Tempe.....	Maricopa.....	1,165	6	89.0	.....	112	23	62	17	45	0.92	.....	0.25	0.0	7	15	13	3	nw.
Thatcher.....	Graham.....	2,800	7	80.2	.....	102	22	59	6	42	1.65	.....	1.05	0.0	4	9	22	0	F. H. Simmons.
Tombstone.....	Cochise.....	4,550	16	77.6	+ 1.8	97	25	53	29	33	4.05	+ 0.18	2.53	0.0	13	7	23	1	Prof. J. H. Larson.
Truxton.....	Mohave.....	4,197	1	79.6	— 0.8	100	23†	59	3†	40	2.55	.....	1.35	0.0	12	9	31	1	F. N. Walcott.
Tuba.....	Coconino.....	4,500	11	74.4	— 0.8	97	6†	53	1†	44	0.34	— 0.51	0.10	0.0	8	5	21	5	S. M. Atkinson.
Tucson.....	Plma.....	2,390	31	85.3	0.0	107	7	63	30	42	2.55	+ 0.12	1.73	0.0	9	0	29	2	G. H. Kraus.
Vail.....	do.....	3,421	12	84.8	+ 0.1	106	7	62	30	37	2.35	+ 1.37	1.90	0.0	8	9	19	3	University of Arizona.
Walnut Grove.....	Yavapai.....	3,649	20	.....	.....	.....	.....	.....	.....	.....	2.24	+ 0.09	0.93	0.0	8	7	23	1	Southern Pacific Co.
Wickenburg.....	Maricopa.....	2,072	11	80.0	+ 1.1	106	6†	68	16†	37	1.95	0.00	0.95	0.0	4	17	11	3	J. O. Carter.
Willcox.....	Cochise.....	4,164	30	73.8	— 4.7	98	25†	50	3†	45	1.09	— 1.44	0.42	0.0	4	5	0	26	Santa Fe, Poge't & Phoenix.
Williams.....	Coconino.....	6,750	11	68.9	+ 1.1	93	22	42	8	45	0.83	— 2.01	0.67	0.0	5	10	19	2	Southern Pacific Co.
Winslow.....	Navajo.....	4,853	7	76.4	.....	103	7	53	31	46	2.52	.....	2.12	0.0	4	15	5	11	E. J. Nordyke.
Yarnell.....	Yavapai.....	4,700	12	.....	.....	.....	.....	.....	.....	.....	4.35	+ 1.27	2.91	0.0	6	5	25	1	J. F. Bauer.
Yuma.....	Yuma.....	141	31	91.7	+ 1.6	113	26	64	14	43	0.18	— 0.17	0.11	0.0	2	31	0	0	E. L. Bartholomew.
<b>Nevada.</b>																			
Caliente.....	Lincoln.....	4,407	.....	72.8	.....	105	8	34	15	64	0.40	.....	0.28	0.0	2	16	13	2	Agent Salt Lake Route.
Las Vegas.....	Clark.....	2,033	2	83.6	.....	110	23†	50	14†	59	T.	.....	T.	0.0	0	22	7	2	Salt Lake Route.
Logan.....	do.....	1,700	3	86.2	.....	111	6	56	16	47	T.	.....	T.	0.0	0	9	17	5	Ray. M. Filcher.

a, b, c, etc., indicate, respectively, 1, 2, 3, etc., days missing from the record.

\* Precipitation included in that of the next measurement.

\*\* Temperature extremes are from observed readings of the dry bulb; means are computed from observed readings.

† Also on other dates.

‡ Separate dates of falls not recorded.

§ Data are from standard instruments not supplied by the U. S. Weather Bureau.

\$\$ Instruments are read in the morning; the maximum temperature then read is charged to the preceding day, on which it almost always occurs.

|| Estimated by observer.

||| Precipitation for the 24 hours ending on the morning when it is measured.

T. Precipitation is less than 0.01 inch rain or melted snow.

TABLE 2.—*Daily precipitation for August, 1910. District No. 9, Colorado Valley.*

TABLE 2.—*Daily precipitation for August 1910. District No. 9—Continued.*

TABLE 2.—*Daily precipitation for August, 1910. District No. 9—Continued.*

TABLE 3.—*Maximum and minimum temperatures at selected stations, August, 1910. District No. 9, Colorado Valley.*

Arizona.

Date.	Bisbee.		Flagstaff.		Fort Apache.		Grand Canyon.		Parker.		Phoenix.		Prescott.		St. Michaels.		San Carlos.		Tucson.		Yuma.		Logan, Nev.	
	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.
1.	85	65	78	49	90	58	90	48	111	66	105	80	87	58	84	59	105	72	98	72	108	76	108	71
2.	84	63	80	50	90	55	88	49	111	66	104	80	88	56	86	55	108	70	100	76	108	78	108	70
3.	84	62	74	50	90	58	88	48	113	75	104	77	82	59	82	59	105	70	100	75	108	77	98	73
4.	85	65	73	49	87	56	86	46	109	80	102	71	89	56	80	54	104	67	101	71	109	78	101	67
5.	84	67	80	46	88	54	90	43	116	80	107	76	87	50	81	51	106	67	102	69	110	73	104	67
6.	87	69	83	44	91	50	94	52	114	82	106	78	91	55	88	48	108	62	102	71	108	75	111	64
7.	86	63	85	49	95	56	92	52	114	82	103	78	90	58	90	58	111	68	107	65	108	80	110	66
8.	79	63	79	50	87	60	94	50	107	81	97	77	85	54	90	62	109	72	86	74	105	81	107	71
9.	79	61	76	54	85	60	86	52	109	78	101	81	82	57	88	63	101	70	97	71	104	79	104	71
10.	80	63	74	57	82	62	86	50	105	84	93	79	76	61	83	57	93	64	93	72	102	81	103	72
11.	82	61	70	57	85	56	85	48	106	81	90	76	79	58	83	57	100	67	96	70	104	78	96	75
12.	82	65	75	49	87	58	86	48	109	84	100	76	81	55	83	53	101	71	98	73	106	77	101	65
13.	84	65	77	50	89	58	84	44	109	82	103	78	84	54	83	55	104	72	100	70	109	75	103	64
14.	83	63	77	44	90	58	86	42	109	85	104	73	85	49	85	55	106	68	103	68	107	64	105	60
15.	82	65	78	46	91	55	86	42	110	86	105	74	86	50	85	55	106	65	101	71	108	66	103	60
16.	81	61	75	49	88	61	88	41	108	83	101	74	84	61	79	57	102	67	97	68	107	74	100	56
17.	86	63	79	44	93	59	86	42	110	80	105	75	88	54	84	47	107	67	103	69	109	68	103	57
18.	82	62	77	51	88	64	84	40	114	81	105	81	86	57	83	51	103	72	104	66	110	80	108	62
19.	83	66	75	54	84	60	84	42	114	83	106	78	87	56	81	54	106	69	101	76	110	73	107	70
20.	86	66	81	50	81	56	86	42	111	82	103	80	87	60	86	56	106	68	101	75	103	78	107	74
21.	86	66	82	54	95	58	88	43	114	78	105	82	89	60	91	54	108	76	100	73	108	79	107	73
22.	89	66	80	52	94	57	86	42	111	80	101	84	80	62	87	57	102	72	98	75	104	79	107	75
23.	87	63	81	47	95	58	86	44	110	82	102	80	89	53	87	55	104	70	99	77	104	80	107	73
24.	83	61	79	50	94	58	88	42	113	78	103	82	88	63	84	59	104	72	100	77	108	78	110	74
25.	87	64	80	56	97	54	86	44	118	80	106	77	91	59	89	55	108	67	105	71	111	79	105	75
26.	84	64	79	50	94	59	90	53	119	78	107	83	89	57	87	46	101	69	105	80	113	78	109	70
27.	86	66	78	54	93	58	92	56	113	80	104	76	85	57	83	49	105	68	101	74	111	77	105	73
28.	82	63	78	48	92	57	86	46	111	78	100	78	85	61	80	55	103	62	99	75	107	78	105	66
29.	77	62	73	51	90	56	84	44	107	74	87	73	81	61	83	55	90	67	93	65	100	72	105	59
30.	75	57	74	53	85	54	81	44	103	80	94	69	82	54	93	63	98	63	100	74	96	70	104	63
31.	81	61	76	45	85	51	88	46	109	78	100	72	81	51	80	52	97	66	95	69	104	76	87	63
Means....	88.3	63.6	77.6	50.0	89.9	57.2	87.2	46.1	110.9	79.6	102.0	77.3	85.3	56.8	84.2	54.8	103.3	68.4	99.0	71.6	106.8	76.4	104.5	67.9